

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Z. Chen, et al.

Art Unit: 2879

Examiner: Unassigned

5 Serial Number: 09/881,981

Filed: June 14, 2001

Title: INTEGRATED FOCUSING EMITTER

Date: January 31 2002

PRELIMINARY AMENDMENT

TO THE ASSISTANT COMMISSIONER FOR PATENTS:

Sir:

15 Please amend the above-identified patent application as follows:

In the Claims:

32. A focused emitter, comprising:

20 a tunneling layer less than about 500 angstroms in thickness disposed on a semiconductor substrate;

a polymer spacer layer disposed on the semiconductor substrate and defining a first opening disposed over the tunneling layer;

25 a focusing lens layer disposed on the polymer spacer layer and defining a second opening disposed over the tunneling layer; and

a cathode layer disposed on the tunneling layer.

33. The focused emitter of claim 32 wherein the polymer spacer layer is between about 2 microns and about 12 microns thick.

30 34. The focused emitter of claim 32 wherein the polymer spacer layer has been cured to remove volatile content.

35. An electronic device comprising at least one focused emitter of claim 32.

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